**Chairman – Jamie Cassels**

**Secretary – Yassen Abbas**

**\*Processes are for January, Report is for before the holidays.**

**Recycling Subsections**

For each process, provide a mini feasibility study. Quantitative results for comparison if possible & flow sheet for that process.

**Air:**

* Sabatier Reaction (Jamie)
* Reverse Water Gas Shift Reaction (Charly)
* Bosch Reaction (James)

**Water:**

**Biological Tech**

* Digestion (Dylan)
* Bio-Reactor Systems (yassen)
* Fermentation (Dylan)
* Bioremediation (Bo)
* Membrane Seperations (lois)

**Chemical Tech**

* Advanced Oxidation Processes (Bo)
* Electrocoagulations (Malcolm)
* Membrane Seperations (lois)
* Ultraviolet Sterilisation (scott)
* Supercritical CO2 (sam J)

**4 mains types of water purification in space are**

* ISS Baseline Technology (sam J)
* Vapour Phase Catalytic Ammonia Reactor (VPCAR) (gareth)
* Direct Osmotic Concentration (DOC) (gareth)
* Immobilised-cell Bioreactor (ICB) (sam w)

**Interim Report:**

* 5 pages, or as concise as possible
* Contains all recycling process we are looking at
* Contains design basis
* List of assumptions
* Initial requirement

Malcolm

Scott

Yassen